

display history

ENTER (BRIEF) OR FULL:full

ENTER (L1-), L#, OR ?:l1-l10

(FILE 'USPAT' ENTERED AT 17:34:20 ON 29 SEP 1999)

L1	171025	SEA	BIASING OR ERASING	✓
L2	28886	SEA	MAGNETIC TAPE	✓
L3	185234	SEA	OSCILLAT###	✓
L4	153273	SEA	TRANSISTOR	✓
L5	150028	SEA	CAPACITOR	✓
L6	0	SEA	L1(P)L2(P)L3(P)L4(P)L5	✓
L7	1458	SEA	L1(1W)HEAD#	✓
L8	20	SEA	L7(P)L2(P)L3	✓

FILE 'JPO' ENTERED AT 17:39:43 ON 29 SEP 1999

L9	19	SEA	L7(P)L2(P)L3	
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FILE 'EPO' ENTERED AT 17:46:05 ON 29 SEP 1999

L10	3	SEA	L7(P)L2(P)L3	
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display 18

ENTER ANSWER NUMBER OR RANGE (1):1-20

ENTER DISPLAY FORMAT (CIT):cit

1. 5,592,344, Jan. 7, 1997, AC bias control circuit for magnetic recording head; Tatsuya Tsuruoka, 360/66, 68 [IMAGE AVAILABLE]
2. 5,495,929, Mar. 5, 1996, Apparatus and method for validation of bank notes and other valuable documents; Valeri V. Batalianets, et al., 194/207; 382/137 [IMAGE AVAILABLE]
3. 5,341,253, Aug. 23, 1994, Extended circuit of a HiFi KARAOKE video cassette recorder having a function of simultaneous singing and recording; Pohsien Liao, et al., 434/307A; 360/13 [IMAGE AVAILABLE]
4. 5,050,012, Sep. 17, 1991, High-speed erasing apparatus for use in magnetic recording/reproducing system; Hiroshi Nishiumi, et al., 360/66 [IMAGE AVAILABLE]
5. 5,036,411, Jul. 30, 1991, Magnetic tape transport mechanism which absorbs magnetic tape oscillations and vibrations in the vicinity of a rotational drum; Atsushi Hosoya, et al., 360/85, 130.32 [IMAGE AVAILABLE]
6. 4,827,360, May 2, 1989, Rotary transformer with winding to cancel crosstalk; Satoshi Kawasaki, et al., 360/64, 66, 124 [IMAGE AVAILABLE]
7. 4,616,273, Oct. 7, 1986, Tape recording apparatus provided with a bias control device; Eiichi Ishii, et al., 360/66 [IMAGE AVAILABLE]
8. 4,527,206, Jul. 2, 1985, Apparatus for controlling braking operation of a magnetic tape transport; Shigeru Suzuki, et al., 360/71; 242/355; 360/74.1 [IMAGE AVAILABLE]
9. 4,504,874, Mar. 12, 1985, Tape recorder; Yugo Imai, 360/66 [IMAGE AVAILABLE]
10. 4,435,735, Mar. 6, 1984, Magnetic recording-reproducing apparatus with constant length cue signal; Kenji Furuta, 360/74.4, 72.1 [IMAGE AVAILABLE]
11. 4,262,255, Apr. 14, 1981, Level indicating device; Akira Kokei, et al., 324/103P, 96, 122; 345/40, 75 [IMAGE AVAILABLE]
12. 4,223,362, Sep. 16, 1980, Tape recording and/or reproducing apparatus; Yoshio Kishi, 360/137, 61, 69, 74.1, 96.3 [IMAGE AVAILABLE]
13. 4,146,956, Apr. 3, 1979, Method for manufacturing a multipolar erasing head; Tatsuo Fujiwara, 29/603.08, 593, 737; 360/118; 361/143 [IMAGE AVAILABLE]
14. 4,038,692, Jul. 26, 1977, Tape sensing device for magnetic tape recording and/or reproducing apparatus; Kenkichi Umeda, et al., 360/25, 65, 66 [IMAGE AVAILABLE]
15. 3,812,529, May 21, 1974, SYSTEM FOR DISCRIMINATING CLASSIFICATION OF A MAGNETIC RECORDING MEDIUM; Tsuchiya Yoichi, 360/25; 324/212; 360/66

[IMAGE AVAILABLE]

16. 3,800,327, Mar. 20, 1974, MAGNETIC RECORDING AND REPRODUCING APPARATUS WITH ERASING HEAD AND A TAPE GUIDE MOUNTED ON A MOVABLE CARRIAGE; Shin Okita, et al., 360/105; 242/340; 360/60, 118 [IMAGE AVAILABLE]

17. 3,668,310, Jun. 6, 1972, MAGNETIC VIDEO RECORDING AND REPRODUCING APPARATUS; Osahiko Yano, et al., 360/84, 15, 16, 31, 75 [IMAGE AVAILABLE]

18. 3,655,910, Apr. 11, 1972, A MAGNETIC RECORDING, REPRODUCING, AND EDITING APPARATUS; Yoshiyo Wada, et al., 386/54 [IMAGE AVAILABLE]

19. 3,641,507, Feb. 8, 1972, ELECTRONIC TEACHING APPARATUS; Masahiro Kosaka, et al., 434/320; 364/920, 920.1, 926, 932, 932.4, 932.6, 947, 947.5, 948.2, 952.4, 952.6, DIG.2 [IMAGE AVAILABLE]

20. 3,582,916, Jun. 1, 1971, PULSE DELAY ARRANGEMENT; Hans Joachim Stock, et al., 360/7; 333/138; 360/54, 100.1 [IMAGE AVAILABLE]

FILE

VIEW

TOOLS

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FILE

VIEW

TOOLS

WINDOW

HELP

Drafts

Pending

Active

L1: (545254) (ERASS OR BIAS\$)

L2: (59247) (MAGNETIC ADJ1 TAPE)

L3: (359928) oscillat\$

L4: (337028) transistor

L5: (281204) capacitor

L7: (14) (2 SAME 3 SAME 5 SAME 1 SAME 4

L8: (5798) (1 ADJ1 HEAD)

L10: (14) (7 SAME 2 SAME 3)

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Default operator DR

(8 SAME 2 SAME 3)

	U	I	Document ID	Issue Dat	Pages	Title	Current OR	Current XR	Retrieval	Inventor	S	C	P	3
1	<input type="checkbox"/>	<input type="checkbox"/>	US 4616273		7	Tape recording apparatus provided with High-speed erasing apparatus for use in ma				ISHII, EIICHI YOSHIMIZU, MAKOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	US 5050012			Magnetic tape video recorder - has erase he				NISHIUMI, HIROSHI NAMIKI, YASUOMI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	DE 4019742		4	Stationary full-width erasing apparatus				SCHALK, ADELBERT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>	US 5321563			CUE SIGNAL RECORDER OF MAGNETIC RECORDER-REPRO				SANFORD, ROBERT COOK, ROBERT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<input type="checkbox"/>	<input type="checkbox"/>	EP 653744		9	MAGNETIC RECORDER-REPRO				KIM, UL-JE LEE, KYEONG-WON	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	<input type="checkbox"/>	<input type="checkbox"/>	JP 54078103		3	TAPE RECORDER				YABU, TOSHIOMI WADA, TATSUO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	<input type="checkbox"/>	<input type="checkbox"/>	JP 54109814		4	RECORDING AND PLAYBACK DEVICE OF TAPE AUTOMATI				MISHINA, MASAMITSU	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	<input type="checkbox"/>	<input type="checkbox"/>	JP 55004702		3	DISCRIMINATING SYSTEM				ISHIZAWA, YOSHIYUKI URA, JUNICHI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	<input type="checkbox"/>	<input type="checkbox"/>	JP 56107355		10	FOR TYPE OF MAGNETIC TA				MURAKAWA, YORIO ISHIGAKI, YUZO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	<input type="checkbox"/>	<input type="checkbox"/>	JP 56156944		1	AUTOMATIC DISCRIMINATOR				NISHIJIMA, TSUTOMU	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	<input type="checkbox"/>	<input type="checkbox"/>	JP 58012153		4	FOR MAGNETIC TAPE OF TA				KAWAKAMI, HIROSHI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	<input type="checkbox"/>	<input type="checkbox"/>	JP 58171754		6	TAPE RUNNING DEVICE				HASHIMOTO, KOSUKE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	<input type="checkbox"/>	<input type="checkbox"/>	JP 58203663		6	LOADING DEVICE				AGARI, MASASHI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	<input type="checkbox"/>	<input type="checkbox"/>	JP 60246046		1	ERASER OF MAGNETIC RECORD SIGNAL				KANETANI, KATAHITO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	<input type="checkbox"/>	<input type="checkbox"/>	JP 61283055		1	DEVICE FOR RECORDING PROGRAM SEARCHING SIGNA				MURATA, SHUJI KONDO, KENJI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	<input type="checkbox"/>	<input type="checkbox"/>	JP 55093504		5	MAGNETIC RECORDING DEVICE				KASHIMA, KOTARO OKAMASA, MAKOTO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	<input type="checkbox"/>	<input type="checkbox"/>	JP 56029808		2	MAGNETIC RECORDING AND REPRODUCING DEVICE				KOMORI, YUJI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	<input type="checkbox"/>	<input type="checkbox"/>	JP 57066513		4	RECORDING AND REPRODUCTION CIRCUITS								

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1 2 3 4 5 6 7 8 9 10 11 12 13 14															
1 2 3 4 5 6 7 8 9 10 11 12 13 14															
	U	1	Document ID	Issue Dat	Pages	Title	Current OR	Current XR	Retrieval	Inventor	S	C	P	2	3
64	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4353100	19821005		Magnetic recording system with signal-cont	360/65	360/66		Inoue, Hideo	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
65	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4376292	19830308		Apparatus for erasing and reproducing audio s	360/66			Mignolet, Georges M. A.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
66	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4435735	19840306		Magnetic recording-reproducing a	360/74.4	360/72.1		Furuta, Kenji	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
67	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4453186	19840605		Video and sound signal recording and reproduci	386/29	386/39		Watatani, Yoshizumi	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
68	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4504874	19850312		Tape recorder	360/66			Imai, Yugo	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
69	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4511935	19850416		Tape recorder	360/66			Imai, Yougo	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
70	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4527206	19850702		Apparatus for controlling braking one	360/71	242/355		Suzuki, Shigeru	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
71	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4605974	19860812		Magnetic recording and reproducing apparatus	360/62	360/74.1		Ochi, Atsuo	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
72	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4616273	19861007		Tape recording apparatus provided with	360/66			Ishii, Eiichi	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
73	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4620239	19861028		Retrieval signal recording apparatus for	360/8	360/27		Fujii, Fumiaki	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
74	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4734798	19880329		Magnetic recording and reproducing apparatus	360/66	360/72.2		Uchimi, Takashi	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
75	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4736262	19880405		Bidirectional magnetic recording and reproduci	360/75	360/109		Miyamoto, Fumihiko	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
76	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4737865	19880412		Magnetic recording editing apparatus with	386/63	360/60		Murakami, Mitsuaki	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
77	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4827360	19890502		Rotary transformer with winding to cancel cross	360/64	360/124		Kawasaki, Satoshi	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
78	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5036411	19910730		Magnetic tape transport mechanism which absorbs	360/85	360/130.32		Hosoya, Atsushi	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
79	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5050012	19910917		High-speed erasing apparatus for use in ma	360/66			Nishiumi, Hiroshi	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
80	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5251283	19931005		Speech recognition system with an automati	704/200			Honis, Rudolf	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
81	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5280393	19940118	7	Circuit for monitoring the recorded state of a	360/25			Kwon, O Sang	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
82	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5321563	19940614		Biasing and erasing apparatus and method fo	360/66	360/68		Sanford, Robert	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
83	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5341253	19940823		Extended circuit of a HiFi KARAOKE video cass	434/307A	360/13		Liao, Pohsien	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
84	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5386326	19950131		Oscillating erase current circuit	360/66	360/46		Harman, Jefferson H.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
85	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5495929	19960305		Apparatus and method for validation of bank	194/207	382/137		Batalianets, Valeri V.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
86	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5508871	19960416		Continuous audio and video tape	360/132	226/194		Ng, Tat O.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
87	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5592344	19970107		AC bias control circuit for magnetic recording	360/66	242/326.		Tsuruoka, Tatsuya	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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File View Edit Tools Window Help

☐ Drafts
☐ Pending
☒ Active
 L1: (545254) (ERAS\$ OR BIAS\$)
 L2: (59247) (MAGNETIC ADJ1 TAPE)
 L3: (359928) oscillat\$
 L4: (337028) transistor
 L5: (281204) capacitor
 L7: (14) (2 SAME 3 SAME 5 SAME 1 SAME 4)
☐ Failed
☐ Saved
☐ Favorites
☐ UDC
☐ Queue
☐ Trash

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 DBs: ☒ Plurals ☒ Synonyms
 Default operator:
 (2 SAME 3 SAME 5 SAME 1 SAME 4)

	U	1	Document ID	Issue Dat	Pages	Title	Current OR	Current XR
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 3599222 A	19710810	5	VELOCITY SHOCK RECORDER	346/7	346/136 ; 346/33M
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 3733117 A	19730515		FILM-TAPE SYNCHRONIZATION SYSTEM	352/22	
3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 3804497 A	19740416		SYSTEM FOR SIMULTANEOUS RECORDING WITH A CAMERA	352/17	352/22 ; 352/5
4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 3838454 A	19740924		TAPE PLAYER CARTRIDGE CONTROL CIRCUIT	360/71	360/78.02
5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 3846685 A	19741105		TAPE PLAYER CARTRIDGE CONTROL CIRCUIT	388/812	
6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4158865 A	19790619		Automatic switching device for cassette tap	360/73.07	360/65
7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4173773 A	19791106		Tape end alarm for tape recorder	360/67	360/74.1
8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4255771 A	19810310		Video signal reproducing apparatus	360/77.17	360/107 ; 360/70
9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4271439 A	19810602		Electronic gain and noise control for recor	360/65	360/68
10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4288827 A	19810908		Automatic switching device for cassette tap	360/137	360/66 ; 360/73.0
11	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4317142 A	19820223		Electronic gain and noise control for recor	360/67	360/61
12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4342059 A	19820727		Electronic gain and noise control for recor	360/123	360/124 ; 360/26
13	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4353100 A	19821005		Magnetic recording system with signal-cont	360/65	360/66
14	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5140567 A	19920818		Method for controlling recording medium player	369/13	360/15 ; 369/3